

# Lesson 21: Distintas formas de resolver problemas

## Standards Alignments

Addressing 4.NBT.B.5, 4.NBT.B.6, 4.OA.A.3

### Teacher-facing Learning Goals

- Interpret products, quotients, and remainders in terms of a situation.
- Solve multi-step problems in ways that make sense to students.

### Student-facing Learning Goals

- Pensemos en problemas de varios pasos y resolvámoslos.

## Lesson Purpose

The purpose of this lesson is for students to represent and solve multi-step contextual problems involving multiplication and division, including division with remainders.

In this lesson, students analyze and use various strategies and representations to reason about multi-step problems. They use their knowledge of multiplication and division, including the ideas of factors and multiples, to represent situations. Students also interpret products, quotients, and remainders in context (MP2).

### Access for:



#### Students with Disabilities

- Representation (Activity 2)



#### English Learners

- MLR7 (Activity 1)

## Instructional Routines

MLR5 Co-craft Questions (Activity 2), Which One Doesn't Belong? (Warm-up)

### Materials to Copy

- Going on a Field Trip, Spanish (groups of 1): Activity 1

## Lesson Timeline

Warm-up

10 min

## Teacher Reflection Question

In the first activity, students had to make sense of strategies, explanations, and representations

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Activity 1	20 min
Activity 2	15 min
Lesson Synthesis	10 min
Cool-down	5 min

that were not their own. What did students say or do that showed the exercise was effective in expanding their view of problem solving?

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## Cool-down (to be completed at the end of the lesson)

 5 min

Gran fin de semana en el cine

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### Student-facing Task Statement

Un teatro de una sola sala de cine tiene 278 asientos. La meta del teatro es vender 2,600 boletos todos los fines de semana. El teatro presenta una película 5 veces todos los sábados y 4 veces todos los domingos.

El fin de semana pasado, la sala del teatro estuvo completamente llena en todas las funciones del sábado y del domingo. ¿El teatro cumplió su meta?

### Student Responses

No, the goal was not met. Sample reasoning: A ticket was sold for each seat 5 times on Saturday, and 4 times on Sunday:  $278 \times 5 = 1,390$  and  $278 \times 4 = 1,112$ , and  $1,390 + 1,112 = 2,502$ . The goal was not met because 2,502 is less than 2,600.